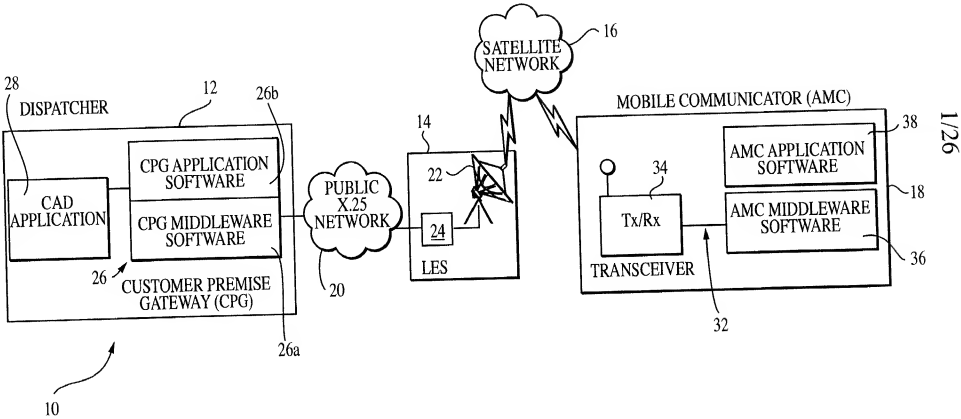

SATELLITE NETWORK
16
28
DISPATCHER
12
26b
14
MOBILE COMMUNICATOR (AMC)
38
CPG APPLICATION SOFTWARE
22
34
AMC APPLICATION SOFTWARE
CAD APPLICATION
PUBLIC X.25 NETWORK
18
CPG MIDDLEWARE SOFTWARE
24
Tx/Rx
AMC MIDDLEWARE SOFTWARE
26
CUSTOMER PREMISE GATEWAY (CPG)
20
LES
TRANSCEIVER
36
32
26a
10

FIG. 1

UNITED STATES PATENT

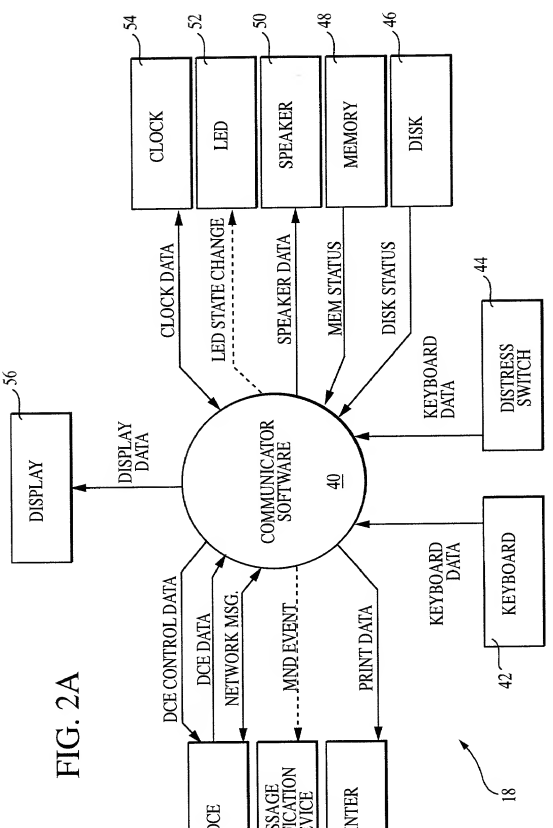



FIG. 2A

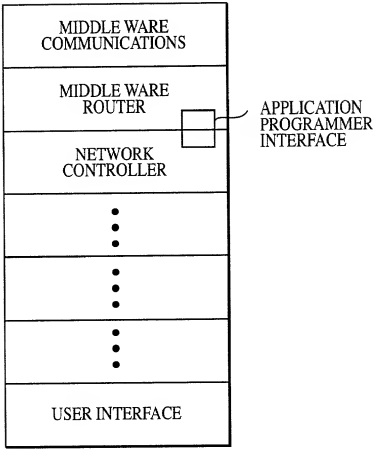

MIDDLE WARE COMMUNICATIONS
MIDDLE WARE ROUTER
APPLICATION PROGRAMMER INTERFACE
NETWORK CONTROLLER
USER INTERFACE

FIG. 2B

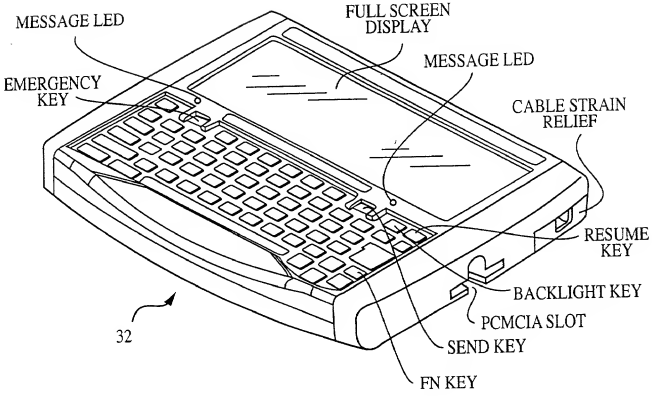

MESSAGE LED
FULL SCREEN DISPLAY
MESSAGE LED
EMERGENCY KEY
CABLE STRAIN RELIEF
RESUME KEY
BACKLIGHT KEY
PCMCIA SLOT
SEND KEY
FN KEY
32

FIG. 3A

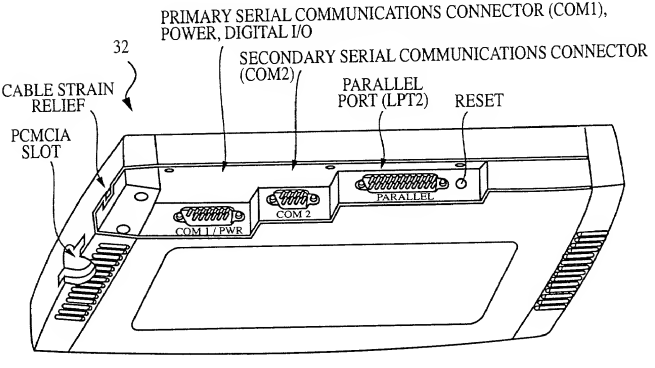

PRIMARY SERIAL COMMUNICATIONS CONNECTOR (COM1), POWER, DIGITAL I/O
32
SECONDARY SERIAL COMMUNICATIONS CONNECTOR (COM2)
CABLE STRAIN RELIEF
PARALLEL PORT (LPT2)
RESET
PCMCIA SLOT
PARALLEL
COM 2
COM 1 / PWR

FIG. 3B

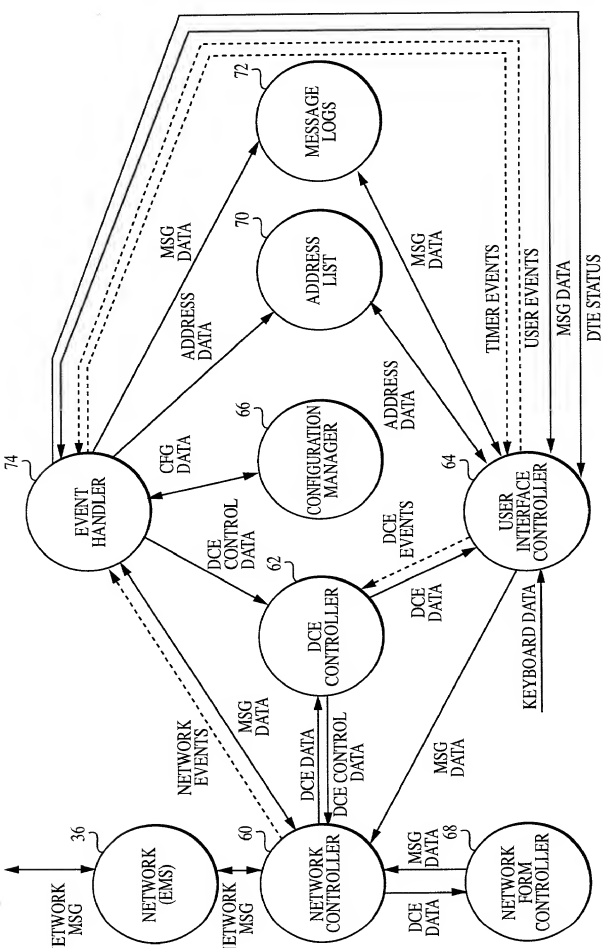

NETWORK MSG
NETWORK (EMS)
36
NETWORK MSG
NETWORK CONTROLLER
60
DCE DATA
MSG DATA
68
NETWORK FORM CONTROLLER
NETWORK EVENTS
MSG DATA
DCE DATA
DCE CONTROL DATA
MSG DATA
DCE CONTROLLER
62
KEYBOARD DATA
74
EVENT HANDLER
CFG DATA
DCE CONTROL DATA
66
CONFIGURATION MANAGER
ADDRESS DATA
MSG DATA
ADDRESS DATA
70
ADDRESS LIST
MSG DATA
72
MESSAGE LOGS
DCE EVENTS
DCE DATA
64
USER INTERFACE CONTROLLER
TIMER EVENTS
USER EVENTS
MSG DATA
DTE STATUS

FIG. 4

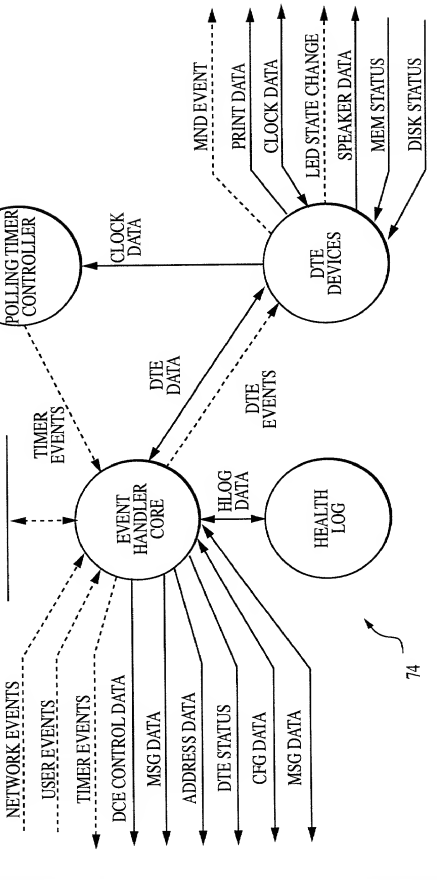

100
POLLING TIMER CONTROLLER
CLOCK DATA
MND EVENT
PRINT DATA
CLOCK DATA
LED STATE CHANGE
SPEAKER DATA
MEM STATUS
DISK STATUS
DTE DEVICES
DTE DATA
DTE EVENTS
TIMER EVENTS
CENTRAL EVENT QUE
EVENT HANDLER CORE
HLOG DATA
HEALTH LOG
NETWORK EVENTS
USER EVENTS
TIMER EVENTS
DCE CONTROL DATA
MSG DATA
ADDRESS DATA
DTE STATUS
CFG DATA
MSG DATA
74

FIG. 5

TOSTZO"6085D660

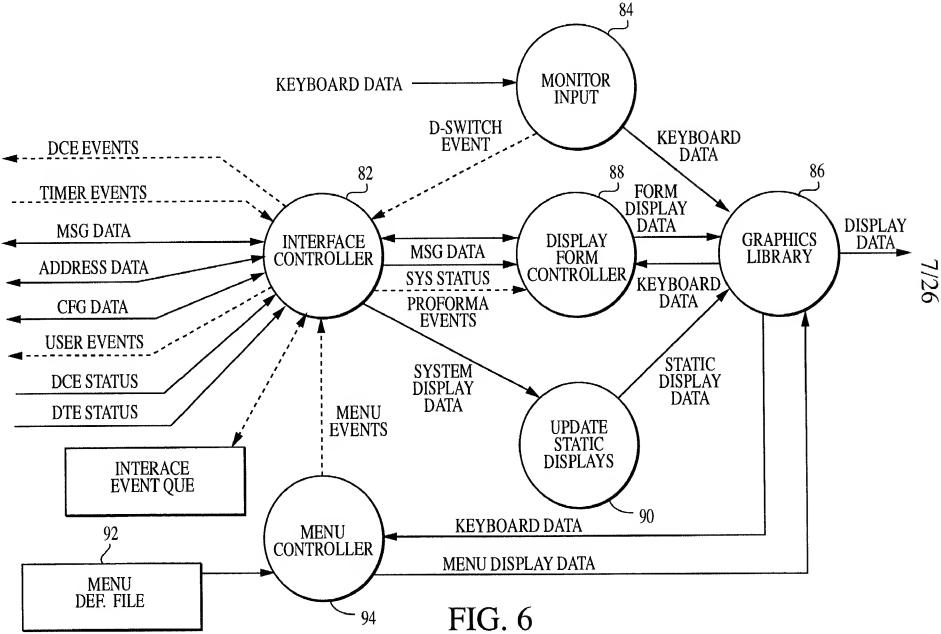



FIG. 6

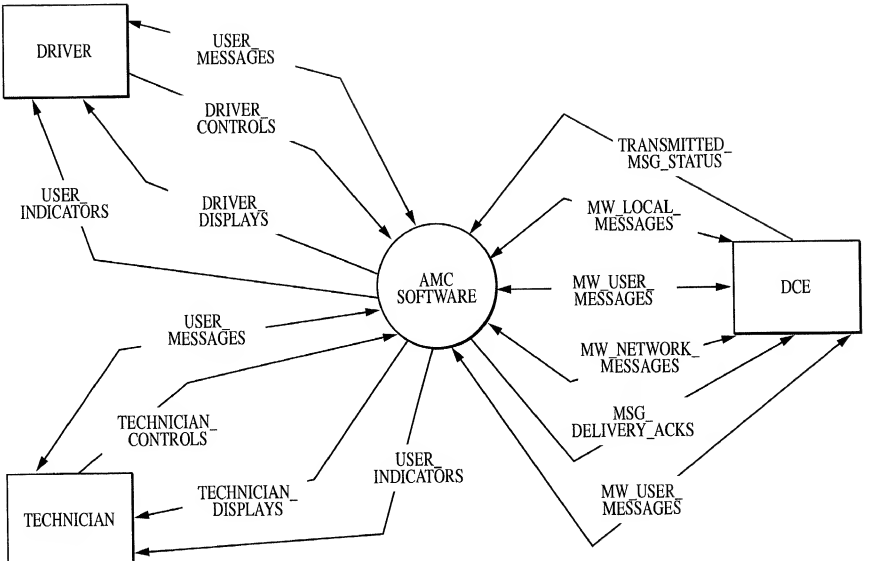

DRIVER
USER_
MESSAGES
DRIVER_
CONTROLS
USER_
INDICATORS
DRIVER_
DISPLAYS
AMC
SOFTWARE
TRANSMITTED_
MSG_STATUS
MW_LOCAL_
MESSAGES
MW_USER_
MESSAGES
MW_NETWORK_
MESSAGES
MSG_
DELIVERY_ACKS
MW_USER_
MESSAGES
DCE
USER_
MESSAGES
TECHNICIAN_
CONTROLS
TECHNICIAN_
DISPLAYS
USER_
INDICATORS
TECHNICIAN

FIG. 7A

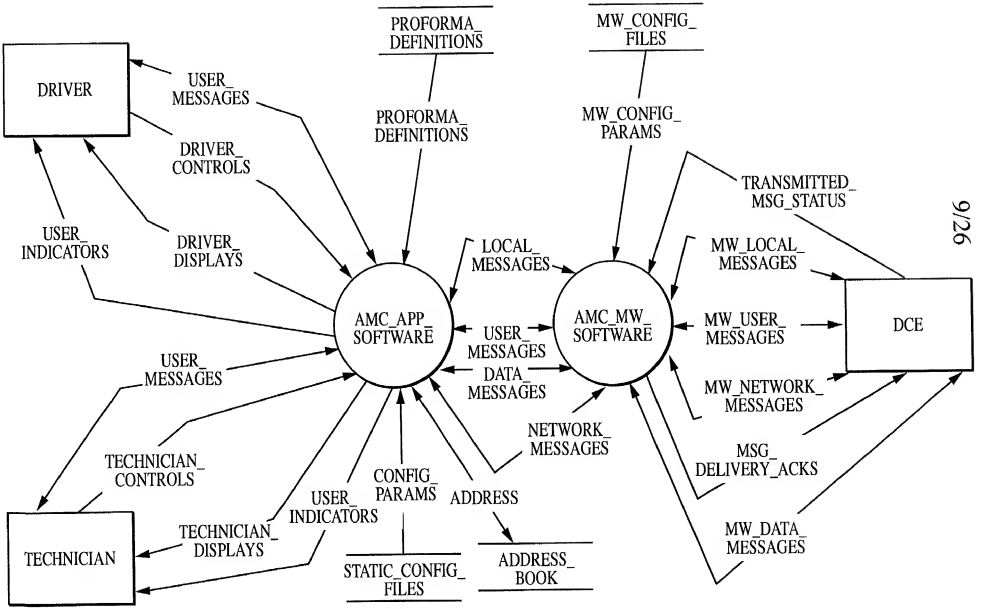
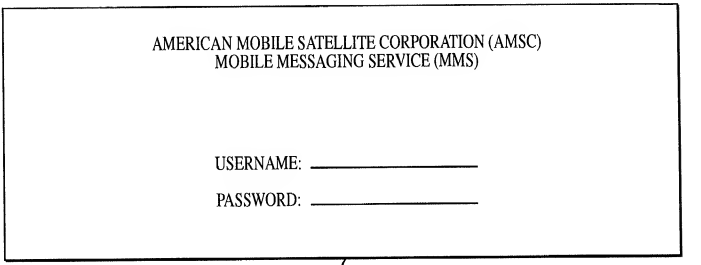

PROFORMA_ DEFINITIONS
MW_CONFIG_ FILES
DRIVER
USER_ MESSAGES
PROFORMA_ DEFINITIONS
MW_CONFIG_ PARAMS
DRIVER_ CONTROLS
TRANSMITTED_ MSG_STATUS
USER_ INDICATORS
DRIVER_ DISPLAYS
LOCAL_ MESSAGES
MW_LOCAL_ MESSAGES
AMC_APP_ SOFTWARE
USER_ MESSAGES
AMC_MW_ SOFTWARE
MW_USER_ MESSAGES
DCE
USER_ MESSAGES
DATA_ MESSAGES
MW_NETWORK_ MESSAGES
NETWORK_ MESSAGES
TECHNICIAN_ CONTROLS
MSG_ DELIVERY_ACKS
CONFIG_ PARAMS
ADDRESS
USER_ INDICATORS
MW_DATA_ MESSAGES
TECHNICIAN
TECHNICIAN_ DISPLAYS
STATIC_CONFIG_ FILES
ADDRESS_ BOOK

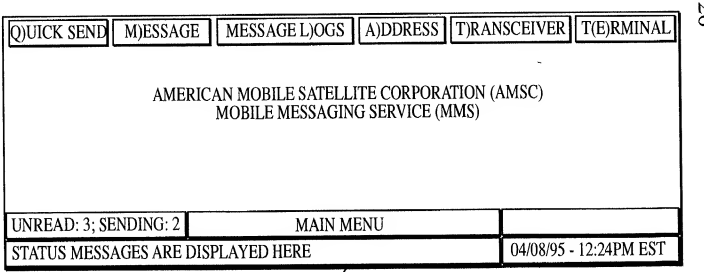
FIG. 7B

FIG. 8-1



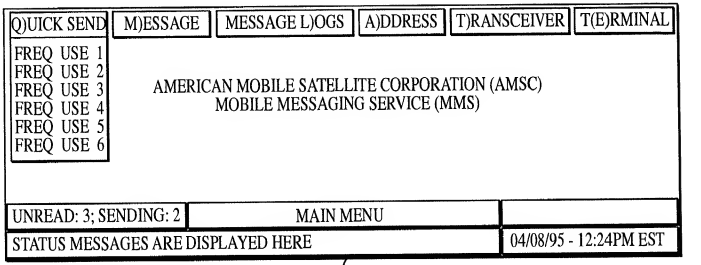

LOGON SCREEN

FIG. 8-2



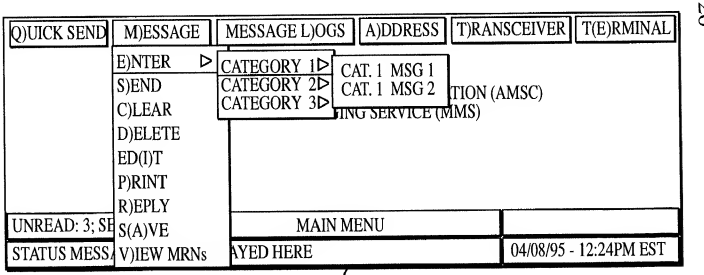

MAIN MENU SCREEN

FIG. 8-3



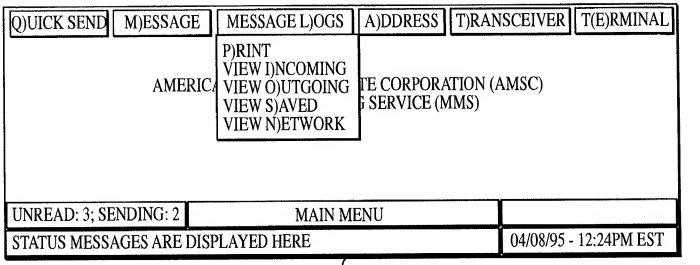

MAIN MENU SCREEN - QUICK SEND

FIG. 8-4



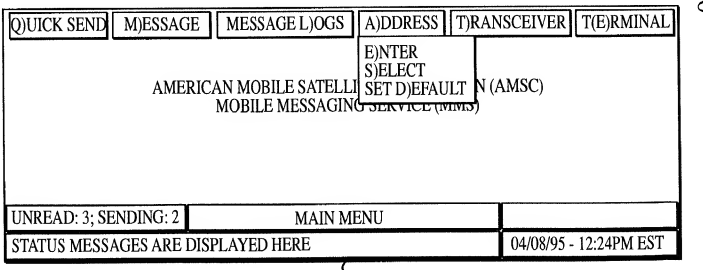

MAIN MENU SCREEN - MESSAGE - ENTER

FIG. 8-5



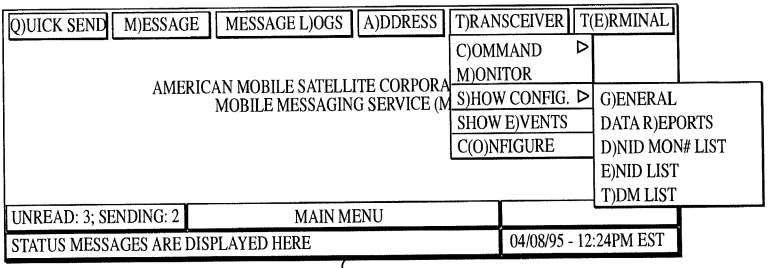

MAIN MENU SCREEN - MESSAGE LOGS

FIG. 8-6



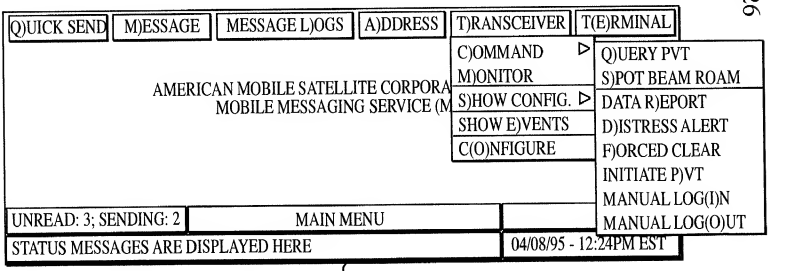

MAIN MENU SCREEN - ADDRESS

FIG. 8-7



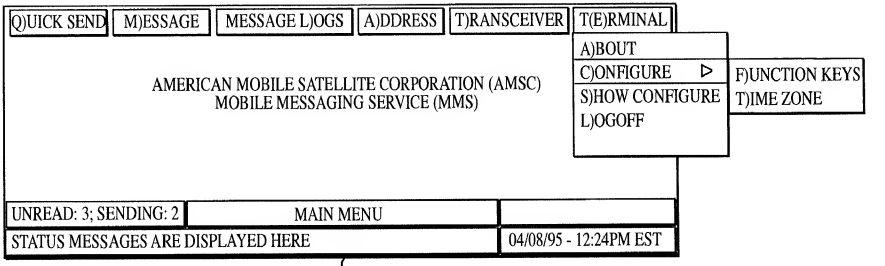

MAIN MENU SCREEN - TRANSCEIVER - SHOW CONFIG

FIG. 8-8



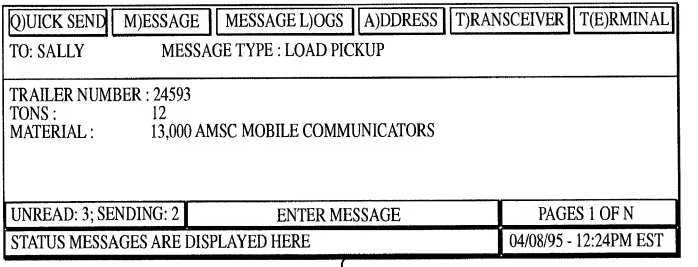

MAIN MENU SCREEN - TRANSCEIVER - COMMAND

FIG. 8-9



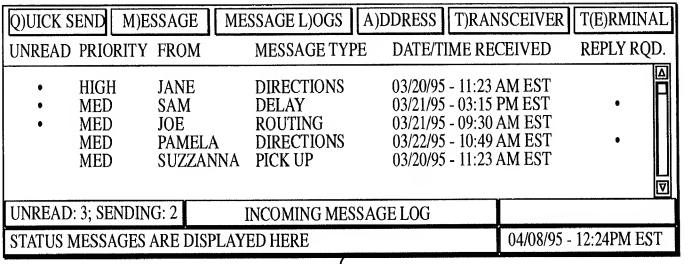

MAIN MENU SCREEN - TERMINAL - CONFIGURE

FIG. 8-10



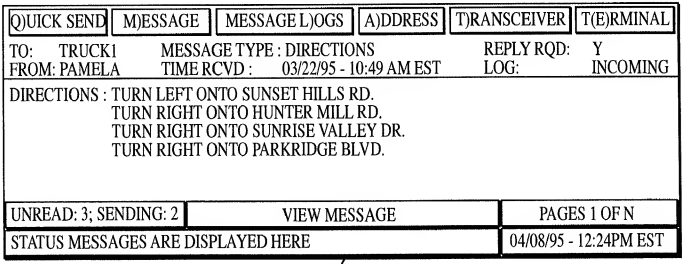

ENTER MESSAGE SCREEN

FIG. 8-11



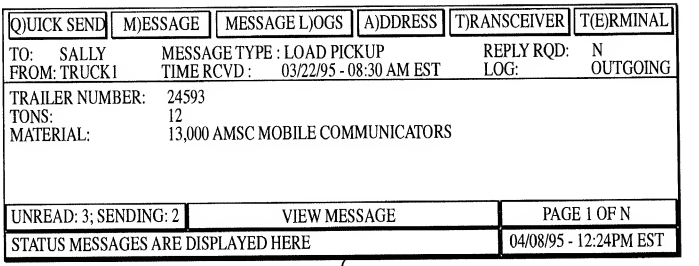

INCOMING MESSAGE LOG SCREEN

FIG. 8-12



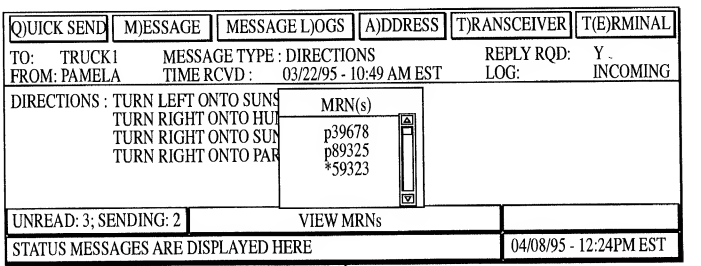

VIEW MESSAGE SCREEN - INCOMING MESSAGE

FIG. 8-13



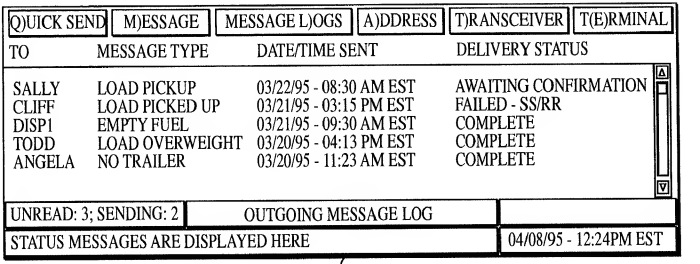

VIEW MESSAGE SCREEN - OUTGOING MESSAGE

FIG. 8-14



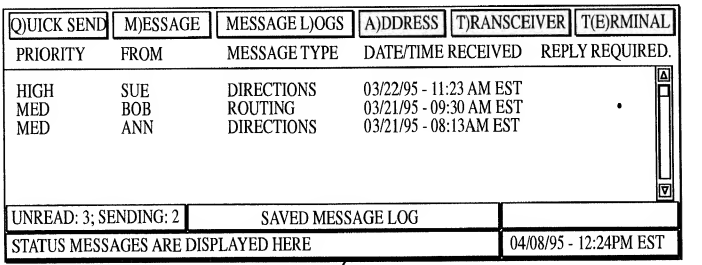

VIEW MRNs SCREEN

FIG. 8-15



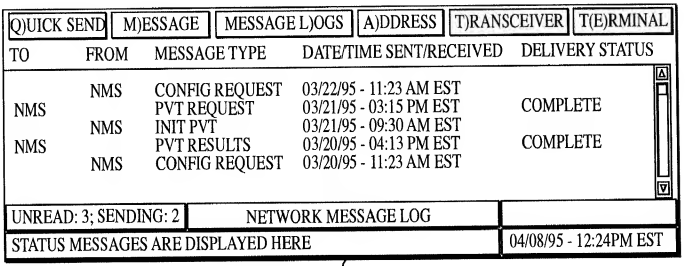

OUTGOING MESSAGE LOG SCREEN

FIG. 8-16



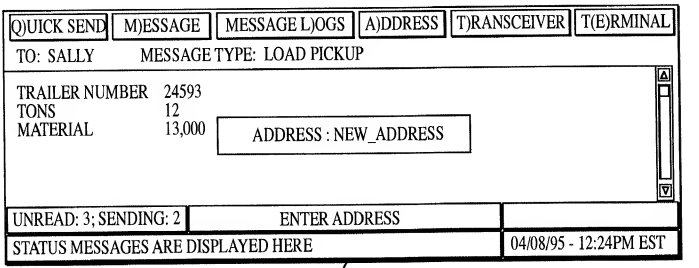

SAVED MESSAGE LOG SCREEN

FIG. 8-17



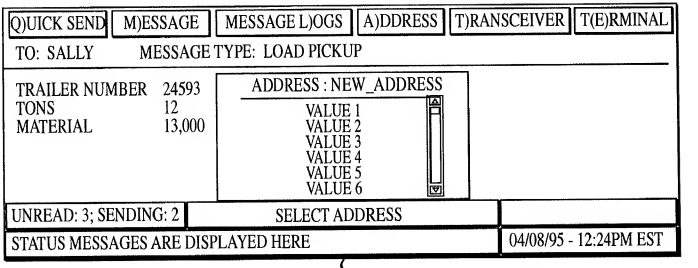

NETWORK MESSAGE LOG SCREEN

FIG. 8-18



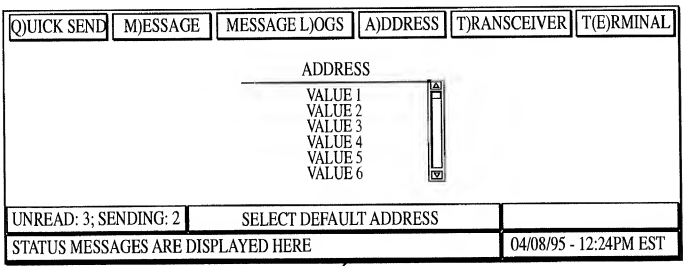

ENTER ADDRESS SCREEN

FIG. 8-19



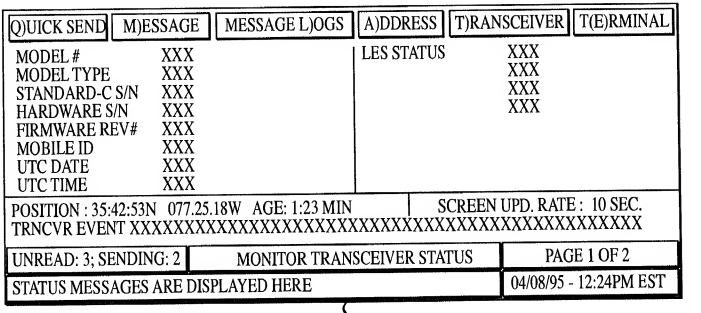

SELECT ADDRESS SCREEN

FIG. 8-20



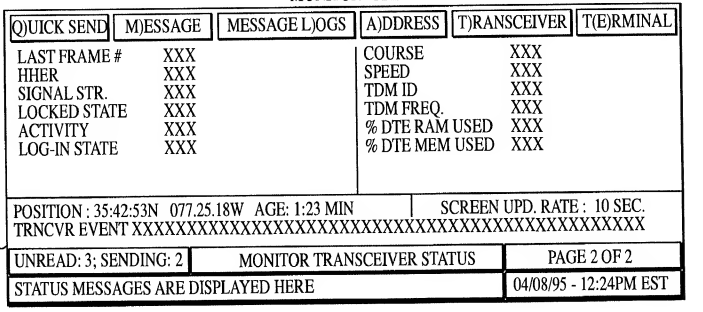

SELECT DEFAULT ADDRESS SCREEN

FIG. 8-21



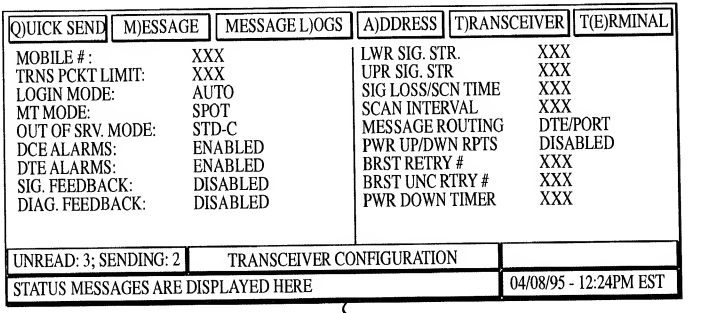

MONITOR TRANSCEIVER STATUS SCREEN - PAGE 1

FIG. 8-22



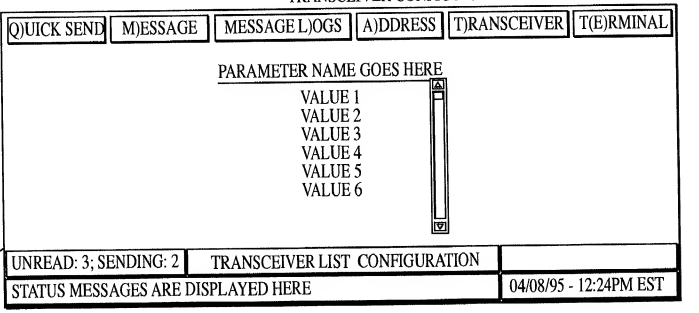

MONITOR TRANSCEIVER STATUS SCREEN - PAGE 2

FIG. 8-23



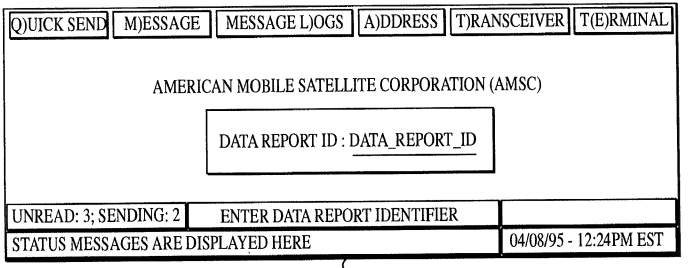

TRANSCEIVER CONFIGURATION SCREEN

FIG. 8-24



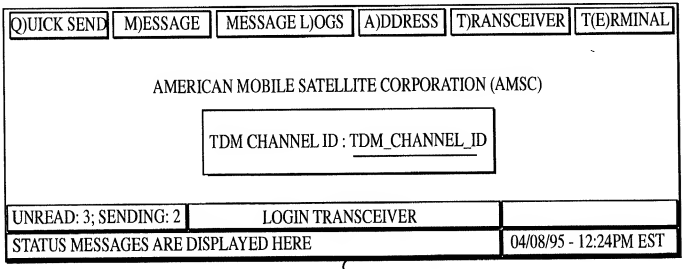

TRANSCEIVER LIST CONFIGURATION SCREEN

FIG. 8-25



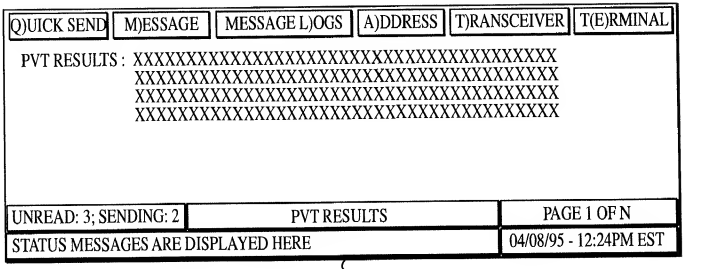

ENTER DATA REPORT IDENTIFIER SCREEN

FIG. 8-26



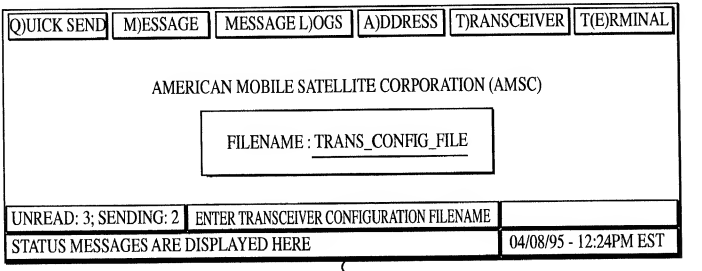

LOGIN TRANSCEIVER SCREEN

FIG. 8-27



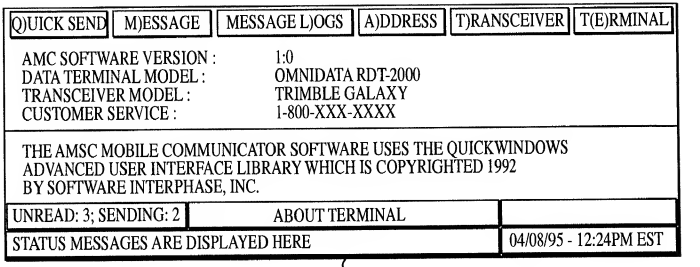

PVT RESULTS SCREEN

FIG. 8-28



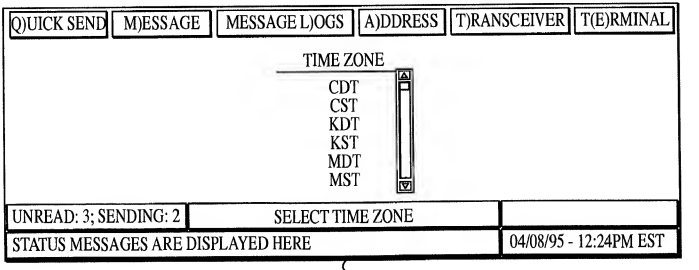

ENTER TRANSCEIVER CONFIGURATION FILENAME SCREEN

FIG. 8-29



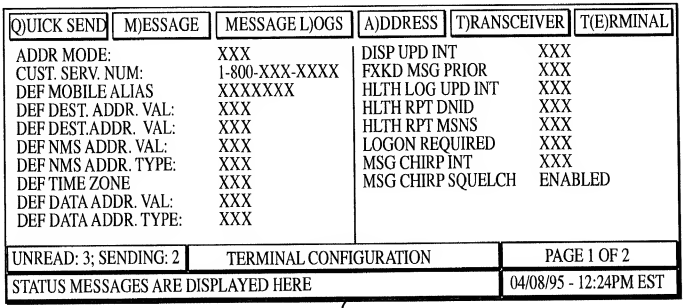

ABOUT TERMINAL SCREEN

FIG. 8-30



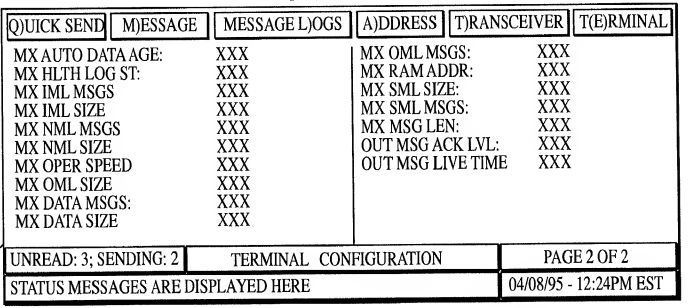

SELECT TIME ZONE SCREEN

FIG. 8-31



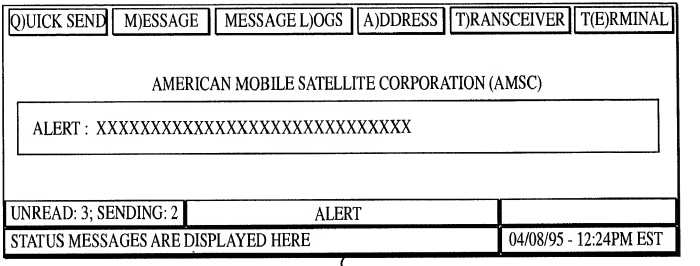

TERMINAL CONFIGURATION SCREEN - PAGE 1

FIG. 8-32



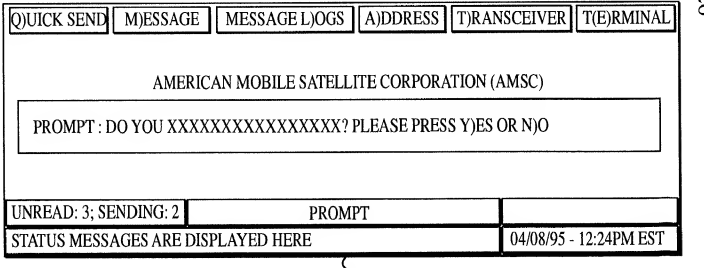

TERMINAL CONFIGURATION SCREEN PAGE 2

FIG. 8-33




ALERT SCREEN

FIG. 8-34




PROMPT SCREEN